

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: SPOT MEADOW POND	Lake Area (ha):	7.77
Town: WINCHESTER	Maximum depth (m):	---
County: Cheshire	Mean depth (m):	---
River Basin: Connecticut	Volume (m <sup>3</sup> ):	---
Latitude: 42°48'46" N	Relative depth:	---
Longitude: 72°23'33" W	Shore configuration:	---
Elevation (ft): 695	Areal water load (m/yr):	---
Shore length (m): 1300	Flushing rate (yr <sup>-1</sup> ):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	natural

BIOLOGICAL:

June 2001

DOM. PHYTOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		
BACTERIA (E. coli, #/100 ml)	#1	
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):  
 Hypolimnion volume (m<sup>3</sup>) : None  
 Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**

Lake: SPOT MEADOW POND

Town: WINCHESTER

	June 2001				
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY ( $\mu$ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 2001**

D.O. S.D. PLANT CHL TOTAL CLASS

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**COMMENTS:**

1. This pond was visited in the spring of 2001 to determine if it was suitable for sampling. Access to the pond required bushwhacking through brambles and downed trees; the pond was classified as inaccessible to sampling by boat.
2. Directions to the pond are: Take route 9 to Keene and then route 10 south to Winchester. At the first set of lights in Winchester, take a right and go over the bridge and stay on this road until you come to a junction where 5 roads meet. Take the second road on the right (Chesterfield Road) and go for about 1.75 – 2 miles to a dirt road on the right (if you go too far you will see two small waterbodies on either side of the road). Follow the dirt road – it will become a rough 4-wheel drive road – to two empty abandoned trailers at the top of the hill. Stop and check the road visually – during our visit, wet conditions and deep ruts prevented further vehicular travel. Continue down to the bottom of the hill and look to the right – the pond is about 150 yards off the road through brambles and downed trees.